ELSEVIER

Protein Structure & Molecular Enzymology

Vol. 1383, 1998

BIOCHIMICA ET BIOPHYSICA ACTA
BBA

Cumulative Contents

BBA is cited in: Current Contents / Life Sciences - Biological Abstracts - Chemical Abstracts - Index Chemicus - Index Medicus / MEDLINE - Cambridge Scientific Abstracts (CSA) - Excerpta Medica (EMBASE) - Reference Update - Current Awareness in Biological Sciences (CABS)

Information for Contributors vii

Short sequence-papers

Cloning and sequence analysis of the cDNA encoding the elongation factor-1β of *Dictyostelium discoideum*
S.-c. Chae and Y. Maeda (Japan) 1

Isolation of a new member of DnaJ-like heat shock protein 40 (Hsp40) from human liver
K.-L. Hoe, M. Won, K.-S. Chung, Y.-J. Jang, S.B. Lee, D.-U. Kim, J.-W. Lee, J.-H. Yun and H.-S. Yoo (South Korea) 4

Review

Legume lectin structure
R. Loris, T. Hamelryck, J. Bouckaert and L. Wyns (Belgium) 9

Regular papers

Melatonin and serotonin interactions with calmodulin: NMR, spectroscopic and biochemical studies
H. Ouyang and H.J. Vogel (Canada) 37

Substrate specificity of cellobiose dehydrogenase from *Phanerochaete chrysosporium*
G. Henriksson, V. Sild, I.J. Szabó, G. Pettersson and G. Johansson (Sweden) 48

Primary structures of *Arenicola marina* isomyoglobins: Molecular basis for functional heterogeneity
T. Kleinschmidt and R.E. Weber (Germany, Denmark) 55

Catalytic properties of the cysteine aminopeptidase PepC, a bacterial bleomycin hydrolase
M.-Y. Mistou and J.-C. Gripon (France) 63

Dual effect of actin on the accessibility of myosin essential light chain A1 to papain cleavage
H. Nieznańska, K. Nieznański, N. Efimova, I. Kąkol and D. Stępkowski (Poland, Russian Federation) 71

Interaction of quinones with *Arabidopsis thaliana* thioredoxin reductase
D. Bironaitė, Ž. Anusevičius, J.-P. Jacquot and N. Čėnas (Lithuania, France) 82

X-Ray crystal structure of papain complexed with cathepsin B-specific covalent-type inhibitor: substrate specificity and inhibitory activity
K. Matsumoto, M. Murata, S. Sumiya, K. Mizoue, K. Kitamura and T. Ishida (Japan) 93

The purification and characterization of a *Trichoderma harzianum* exochitinase
E.E. Deane, J.M. Whipps, J.M. Lynch and J.F. Peberdy (UK) 101

Probing the ATP binding site of tubulin with thiotriphosphate analogues of ATP
S. Xu and F. Gaskin (USA) 111

Interaction of M1 and M2 isozymes pyruvate kinase from human tissues with phosholipids
A. Dąbrowska, J. Pietkiewicz, K. Dąbrowska, E. Czapińska and R. Danielewicz (Poland) 123

A molecular model for the *d* chain of the giant haemoglobin from *Lumbricus terrestris* and its implications for subunit assembly
E. Viana, C.H.T.P. Da Silva, M. Tabak, H. Imasato and R. Garratt (Brazil) 130

An electrospray ionization mass spectrometric study of the extracellular hemoglobins from *Chironomus thummi thummi*
B.N. Green, A.R. Kuchumov, T. Hankeln, E.R. Schmidt, G. Bergtrom and S.N. Vinogradov (UK, USA, Germany) 143

Long-lifetime Ru(II) complexes for the measurement of high molecular weight protein hydrodynamics
H. Szmacinski, F.N. Castellano, E. Terpetschnig, J.D. Dattelbaum, J.R. Lakowicz and G.J. Meyer (USA) 151

Redox potential of the haem *c* group in the quinocytochrome, lupanine hydroxylase, an enzyme located in the periplasm of a *Pseudomonas* sp.
D.J. Hopper and J. Rogozinski (UK, Poland) 160

Effect of pressure on the catalytic activity of subtilisin Carlsberg suspended in compressed gases
N. Fontes, E. Nogueiro, A.M. Elvas, T. Corrêa de Sampaio and S. Barreiros (Portugal) 165

Information for Contributors *vii*

Rapid report

Structural determination of lipid-bound human blood coagulation factor IX
S. Stoylova, E. Gray, T.W. Barrowcliffe, G. Kemball-Cook and A. Holzenburg (UK) 175

Short sequence-papers

Nucleotide sequence and deduced amino acid sequence of a putative asparagine synthetase in the mosquito *Aedes aegypti* (L.)
U. Ackermann and R. Graf (Switzerland) 179

A P-type ATPase from the aquatic fungus *Blastocladiella emersonii* similar to animal Na,K-ATPases
F.S.J. De Souza and S.L. Gomes (Brazil) 183

Regular papers

Biochemical characterization of the pectate lyase PelZ of *Erwinia chrysanthemi* 3937
C. Pissavin, J. Robert-Baudouy and N. Hugouvieux-Cotte-Pattat (France) 188

Binding of monovalent anions to human serum transferrin
W.R. Harris, A.M. Cafferty, S. Abdollahi and K. Trankler (USA) 197

Refolding of recombinant sulphonated procathepsin S and of reduced chicken cystatin; implications for renaturation experiments
E. Žerovnik, G. Kopitar, J. Kos and V. Turk (Slovenia) 211

Functional characteristics and the complete primary structure of ascidian gelsolin
Y. Ohtsuka, H. Nakae, H. Abe and T. Obinata (Japan) 219

Acquisition of a new type of fructose-1,6-bisphosphatase with resistance to hydrogen peroxide in cyanobacteria: molecular characterization of the enzyme from *Synechocystis* PCC 6803
M. Tamoi, A. Murakami, T. Takeda and S. Shigeoka (Japan) 232

Factors affecting the oligomeric state of NADP-malic enzyme from maize and wheat tissues: a chemical crosslinking study
C.P. Spampinato, P. Casati and C.S. Andreo (Argentina) 245

Identification and characterization of the cell-associated binding protein for urinary trypsin inhibitor
H. Kobayashi, Y. Hirashima, G.W. Sun, M. Fujie, K. Shibata, S. Tamotsu, K. Miura, D. Sugino, Y. Tanaka, S. Kondo and T. Terao (Japan) 253

Structural basis for the electron transfer across the chromaffin vesicle membranes catalyzed by cytochrome b_{561}: analyses of cDNA nucleotide sequences and visible absorption spectra
E. Okuyama, R. Yamamoto, Y. Ichikawa and M. Tsubaki (Japan) 269

Porcine natural-killer-enhancing factor-B: oligomerisation and identification as a calpain substrate in vitro
E. Schröder, A.C. Willis and C.P. Ponting (UK) 279

Analysis of the secondary structure of the catalytic domain of mouse Ras exchange factor $CDC25^{Mm}$
P. Coccetti, E. Monzani, L. Alberghina, L. Casella and E. Martegani (Italy) 292

Characterization of aminopeptidase N from the brush border membrane of the larvae midgut of silkworm, *Bombyx mori* as a zinc enzyme
G. Hua, K. Tsukamoto, R. Taguchi, M. Tomita, S. Miyajima and H. Ikezawa (Japan) 301

Self-diffusion and self-association of lysozyme molecules in solution
I.V. Nesmelova and V.D. Fedotov (Russian Federation) 311

New stable folding of β-lactoglobulin induced by 2-propanol
M. Barteri, M.C. Gaudiano, G. Mei and N. Rosato (Italy) 317

On the stability of the 24-meric hemocyanin from *Eurypelma californicum*
R. Hübler, B. Fertl, N. Hellmann and H. Decker (Germany) 327

8-Cysteine TGF-BP structural motifs are the site of covalent binding between mouse LTBP-3, LTBP-2, and latent TGF-β1
W. Yin, J. Fang, E. Smiley and J. Bonadio (USA) 340

Significance of the enzymatic properties of yeast S39A enolase to the catalytic mechanism
J.M. Brewer, C.V.C. Glover, M.J. Holland and L. Lebioda (USA) 351

Cumulative Contents, Vol. 1383 357

Author Index 360